PROC. ROY. Soc. VICTORIA, 21 (N.S.), PT. II., 1908.]

ART. XXII.—The Endoparasites of Australian Stock and Native Fauna.

PART I.

Introduction, and Census of Forms recorded up to date.

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Government Research Scholar.

[Read 10th December, 1908.]

INTRODUCTION.

The investigation of which the present papers form the first records was begun this year (1908) in the Biological Laboratory of the University of Melbourne. This work, of which the extent and difficulties can only be appreciated by those who know something of the subject, aims at making a systematic and thorough enquiry into the nature of the internal parasites infesting Australian animals, both native and domesticated, and then into the life-history and conditions of increase and spread of these injurious forms. So far but little of a methodical and widespread nature has been done in Australia, although, as will be seen from the accompanying census, a considerable number of records are scattered about in various publications. The valuable work of Dr. N. A. Cobb in New South Wales is the principal series of records in this direction, the other States of the Commonwealth being very far behind the mother State in this respect. This, in a country so dependent on its live stock industries as Australia, means a very great loss in revenue annually from what are probably preventable causes.

Doubtless we have here many of the more common forms of the older civilised countries, which have been introduced, but very probably, too, there are species unknown elsewhere and just as objectionable as many of the better known kinds. My

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object then is twofold: first, to increase our purely scientific kr, wledge of the Australian parasitic fauna, and especially of the "worms"; and secondly, to attack in some measure the scientific and economic problems associated with the existence and eradication of these "pests."

As a result of the courtesy and foresight of the ex-Minister of Agriculture and the chief officer in the Stock branch of the Department of Agriculture of Victoria, a large number of circulars have been printed and distributed to those most likely to assist, especially in this State, inviting their co-operation in sending specimens. As yet, it is too soon to receive much response in the way of material, but considerable interest has been shown in the matter in other States as well as this.

At the outset I wish to thank most sincerely all those who have already helped forward this work—especially the ex-Minister for Agriculture (Hon. George Swinburne, M.L.A.), and the chief veterinary officer in the Stock Branch (Mr. S. S. Cameron, M.R.C.V.S.), Professor Baldwin Spencer, C.M.G., F.R.S., and Dr. T. S Hall, of the Biological Department in this University, and also the librarians and assistants of the several Government and other libraries, who have done their utmost to assist me in my tedious search for records. The names of those to whom my thanks are due for specimens appear in connection with the individual records.

CENSUS.

In undertaking this work it was essential that I should know exactly what has been recorded up to date from or in Australia and Tasmania, and New Guinea with its surrounding islands, these being included on account of the existence of Australian marsupials there. As it seemed that this information would be useful for others also, it is being published here. Although primarily concerned with the endo-parasitic worms, it appeared desirable to add to the list such references as I met in my search, dealing with forms belonging to the Arachnida, etc., which have well-marked endoparasitic stages in their lifehistories.

It has been my endeavour to make this list of species as complete as possible. With this purpose, I have examined all the Scientific and Agricultural Journals published in Australia, as well as other catalogues and records of papers published elsewhere as set forth in the appended list. Should, however, any genuine record of Australian Entozoa have been omitted, I shall be glad to have my attention called to it, so that it may be included in an appendix. It has not been possible for me to see a few of the papers referred to, as they are not available in Australia-but by far the larger number of references I have seen and checked. In many instances, especially in the Agricultural and weekly journals, there are vague references to "worms" in various animals, but without identification or even adequate description from which to identify their class. These, of course, have had to be ignored. Also, in a number of cases, well-known worms are described for the benefit of the public, but without any definite statement of their occurrence in that State or States. Some few of the less indefinite of these have been included here with an interrogation mark, but the majority of them bear no evidence of their definite occurrence in Australia. It may not be out of place to urge upon those whose professional work brings them into relation with these forms, that even if the form be a well-known one elsewhere, it is necessary that there should be a definite record of its occurrence in any particular region or State, with any features in which it may differ, in structure, habitat, host, etc., from the usual conditions. There is, further, no doubt that many records have been made on general grounds of naked-eye appearance, habitat. host, etc., instead of being based on a detailed scientific determination. Also, it is very desirable that the nomenclature of these forms should be as consistent as possible. The synonymy of these lower groups of Metazoa is in many cases most involved, and it is a matter of great difficulty for one who is not completely conversant with them to get at the true scientific name of very many, especially in the case of the Nematoda, a group which seems to be consistently shunned by the editors of such publications as Bronn's "Thierreich," etc.

LIST OF PUBLICATIONS EXAMINED FOR RECORDS.

(Except where otherwise stated, all current periodicals were examined to date.)

Agassiz. "Catalogue of Books, etc., in Zoology, Geology, to 1848."

"Australasian," Melbourne (in part).

Australasian Association for Advancement of Science: Reports. Australian Medical Gazette.

Australian Medical Journal.

British Medical Association, London : Journal (in part).

Field Naturalists' Club of Victoria; "Victorian Naturalist," Melbourne.

International Catalogue of Scientific Literature.

Intercolonial Medical Journal of Australasia.

Intercolonial Medical Congress of Australasia: Transactions.

" Leader," Melbourne: (in part).

Linnean Society of London, Zoology: Index to Journal of Proceedings, etc., 1838-1890.

Linnean Society of New South Wales : Proceedings.

New South Wales, Department of Mines and Agriculture :

Agricultural Gazette.

Agricultural Bulletins.

Miscellaneous Publications.

Philosophical Society of Adelaide: Transactions.

Philosophical Society of New South Wales: Proceedings and Transactions.

Philosophical Society of North Queensland: Proceedings.

Philosophical Society of Queensland: Transactions.

Philosophical Society of Victoria: Transactions.

Quarterly Journal of Microscopical Science: Index 1844 to 1888. Queensland, Department of Agriculture:

Agricultural Journal.

Agricultural Bulletins.

Agricultural Reports.

Record of Zoological Literature, 1864 to date.

Royal Society of London: Catalogue of Scientific Papers, 1800-1863.

- Royal Society of New South Wales: Transactions and Journal and Proceedings.
- Royal Society of Queensland: Proceedings.
- Royal Society of South Australia: Transactions and Index.
- Royal Society of Tasmania: Papers and Proceedings.
- Royal Society of Van Diemen's Land (see Tasmania).
- Royal Society of Victoria: Transactions and Proceedings.
- South Australia, Department of Agriculture: Journal of Agriculture and Industry.
- Tasmania, Department of Agriculture: Agricultural Gazette, or Journal of the Council of Agriculture.
- Tasmanian Society: Journal of Natural Science, Agriculture, etc.
- Victoria, Department of Agriculture:

Agricultural Journal.

Agricultural Bulletins.

Victorian Agricultural and Horticultural Gazette, Geelong.

- Victorian Institute for the Advancement of Science: Transactions.
- West Australia, Department of Agriculture: Agricultural Journal.

Wombat, The: or Geelong Naturalist.

Zoological Society of London: Proceedings. Index 1830 to 1870.

From this list it will be seen that I have endeavoured to cover the whole period up to date in European and American literature, and in more detail, the Australian publications, any records in which are not likely to be included in such volumes as the Zoological Record.

Record.	Centrbl. Bakter., xxv., 1899, (1) p. 725	Trans. Ento. Soc. N.S.W., ii., (2) 1871, p. 213	Centrbl. Bakter., xxv., 1899, (1) n 719	Centrol. Bakter., xxv., 1899, (1) p. 720.	Proc. Linn. Soc. N.S.W., i., (3) 1875-7, p. 12.	Centrbl. Bakter., xxv., 1899, (1) n. 720.	Centrbl. Bakter., xxv., 1899, (1) p. 716	Aus. Med. Jour., ix., 1864, p.
	Centrbl. Ba. p. 725	Trans. Ento. 1871, p.	Centrbl. Ba	Centrbl. Ba p. 720.	Proc. Linn. 1875-7,	Centrbl. Ba p. 720.	Centrbl. Bak p. 716	Aus. Med. J. 29
Recorder.	Braun	Krefft	Braun	Braun	Macleay	Braun	Braun	Crawford
Locality.	Ralun, Bis- Braun marck Ar.	Queensland	Ralum, Bis- marck Ar	Ralum, Bis- marck Ar.	PortStephens Macleay N.S.W.	Ralum, Bis- Braun marck Ar.	Ralum, Bis- marck Ar.	South Aus.
llost.	(See Paramphistomum) Rephilia " Sea-tortoise " Rephilia	Elseya dentata (See Schistosonum)	<i>Reptilia</i> "Sea-tortoise"	"Sea-tortoise" Dime	u 1966s Orthagoriseus mola (gills) Renhilia	" Sea-tortoise "	Rud. " Sea-tortoise " Mammalia	Homo
Species.	Amphistomum conicum (Zed. et (See Paramphistomum) Rud.) <i>Rephilia</i> Amphistomum scleroporum, "Sea-tortoise" Crepl. 1844	Amphistomum, sp Bilharzia -	Distomum amphiorchis, Braun -	Distomum anthos, Braun -	Distomum contortum, Rud	Distomum cymbiforme, Rud.	Distomum gelatinosum, Rud. 1819	Distomum hepaticum, L.

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Record.	Papers and Proc. Royal Soc. Tas. 1869 n. 19	Agri. Gaz. N.S.W., iii., 1892,	Agri. Gaz. N.S.W., iv., 1894,	p. 4. 1900, hgri, Gaz. N.S.W., xi., 1900, n. 841	Agri. Jour. Vic., ii., 1904, p. 1001 · iii 1905 n 41	Jour. of Agri., W.A., xv., 1907, p. 88	Trans. Ento. Soc. N.S.W., ii., (5) 1871. n 212	v. Cobbold's "Parasites of Animals" p. 431	Entozoorum Synopsis, 1819, p.	Veterinarian, xlviii., 1875, p. 123	Veterinarian, xlv., 1872, p. 542	Centrbl. Bakter., xxv., 1899, (1) p. 717
Recorder.	Harrop	Perrie		Stewart	Brown	Cleland	Krefft	Bremser	Rudolphi	Bennett	1	Braun
· Locality.	Midland, Tas.	N.S.W.	N.S.W.	N.S.W.	Victoria	West Aus., from East.	N.S.W., Q'ld.	Australia	Australia	Australia	Australia	Ralum, Bis- Braun marck Ar.
Host.	Ovis aries (liver)	Ovis aries (liver)	· Ovis aries (liver)	· Ovis aries (liver)	· Ovis aries (liver)	· Ovis aries (liver) · Bos taurus (liver)	Macropus major (bile ducts	Macropus major (bile ducts		. "Kangaroo liver and bile ducts"	- Ovis aries (liver)	Reptilio -" Sea-tortoise "
Species.	Distomum hepaticum, L.	Distomum hepaticum, L.	Distomum hepaticum, L.	Distomum hepaticum, L.	Distomum hepaticum, L.	Distomum hepaticum, L Distomum hepaticum, L	Distomum hepaticum, L.	Distomum hepaticum, L.	Distomum hepaticum, L.	Distomum hepaticum, L. (?) -	Distomum hepaticum, I. (?) -	Distomum irroratum, Rud.

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Record.	Proc. Linn. Soc. N.S.W., (ii.), xxvi., 1901, p. 334.	Centrbl. Bakter., xxv., 1899, (1) p. 714 Proc. Linn. Soc. N.S.W., xxvii., ⁻ 1902, p. 326	 Aus. Med. Jour., x., 1865, p. 156 Aus. Med. Jour., x., 1865, p. 1 Australasian, 1895, i., p. 442. Arstralasian, Use., v., 1907, p. 512, 640. 	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 213 Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 213
Recorder.	Johnston	Braun Johnston	Ralph Ralph Dowling Brown	K refit K refit
Locality.	N.S.W,	Ralum, Bis- Braun marek Ar. N.S.W. Johnst	Australia (?) Ralph Kew, Vic. Ralph Vic., N.S W. Dowli Victoria Brown	N.S.W., Q'ld. Krefft N.S.W., Q'ld. Krefft
llost.	Mammalia Ornithorhynchus anatinus (stomach, duodenum and small intestine)	Ares Saurophaga saurophaga <i>Pisces</i> Pristiophorus cirratus, Lath. (body cavity) (Sce Opisthorchis sinensis)	Mammalia Homo: (Ova in cysts) Bos taurus: (encysted ovum in lung) Ovis aries l	Ardea pacifica Herodias alba
	uchi, John-	Braun - i, Johnston -		· ·
Species.	Distomum ornithorhynchi, John- ston	Distomum porrectum. Braun - Distomum pristiophori, Johnston Distomum sinense -	Distomum, sp. (?) Distomum, sp. (?) Distomum, sp. (?) Distomum, sp. (?)	Distonum, sp. $(?)$ Distonum, sp. $(?)$

	S.W., ii., (5	S.W., ii., (5	c., viii.,	154, and	895-6, p.	895-6, p.	895-6, p. 895-6, p.	395-6, p.	895-6, p,
Record.	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 213	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 214	Roy. Soc. Vi	1599, p. 183 Australasian, 1895, p. 154, and 1806 /12-1	Vic. Nat. Vic., xii., 1895-6, p. 123	Vic. Nat. Vic., xii., 1895-6, p. 139	Vie. Nat. Vie., xii., 1895-6, p. 139 Vie. Nat. Vie., xii., 1895-6, p.	146. Vic. Nat. Vic., xii., 1895-6, p. 146	Vic. Nat. Vic., xii., 1895-6, p,
	Trans. 18	Trans. 18	Proc.	1c Austra			Vic. N Vic. N.	14 Vic. N 14 14	Vic. N
Recorder.	Krefft	Krefft	Cherry	Macpherson	Fielder, O'Neill and	Cummins Fielder	Fielder Fielder	Fielder Dielder	Fielder
Locality.	N.S.W., Q'ld. Krefft	N.S.W., Q'ld. Krefft	Winntera and C. L.W. W.	victoria	Heidelberg, V. Fielder, O'Neill and	Heidelberg, V.	N.E. Vic. Fielder Ballarat, Vic. Fielder	Warrn'mbool, Fielder Vie. Domt Dome Viender	Fort Fairy, V. Fielder
Host,	Porphyrio melanotus	" Large percoid fish "	Intermediate hosts, in Bulinus tenuistriatus	Bulinus pectorosis Bulinus comeiunus	Bulinus tenuistriatus Planorbis sp., Ancylus aus-	tralicus Also in Ancylus tasmanicus, Segmentina victoriae, Planorbis gilberti, Bul-	inus gibbosa, var. fusi- formis Bulinus texturata, Lim- naea essoni Bulinus aliciae, var. tur-	rita; Potomopyrgus, sp. Amphipeplea papyraceae	Drazieri
	P	,	'	'	,			•	2
Species.	Distomum, sp. (1)	Distomum, sp. (?)	Distomum, sp. (l)	Distomum, sp. (?)	Distomum. sp. (1)	Distomum, spp. (1)	Distomum, spp. (1) Distomum, spp. (1)	Distomum, spp. (?) Distomum snn (?)	(1) .dde (mmmoer

Species.	Host,	Locality.	Recorder.	Record.	
Distonum, spp. (1)	Bulinus newcombi Limnaea brazieri Unio australis	N.S.W.	Fielder	Vic. Nat. Vic., xiii., 1896-7, p. 24	
Distomum, spp. (1)	Bulinus brazieri	N.S.W.	Cobb	Agri. Gaz. N.SW., viii., 1897, p. 453, etc.	
Hemistomum intermedium, John- ston Hemistomum triangulare, John- ston	Ares Cygnus atratus, Lath. (duodenum) Dacelo gigus (duodenum and small intestine)	Duckmedoi R., Johnston N.S.W. Jervis Bay, Johnston N.S.W.	Johnston Johnston	 Proc. Linn. Soc. N.S.W xxix., (6) 1904, p. 110 Proc. Linn. Soc. N.S.W., xxix., (6) 1904, p. 108 	(6)
Holostomum alatum (Distomum alatum, Rud.)	Mammalia Canis familiaris	N.S.W.	Macleny	Proc. Linn. Soc. N.S.W., x., 1885, p. 343	
Holostomum hillii, Johnston -	Ares Larus novae-hollandiae (duodenum)	Jervis Bay, Johnston N.S.W.	Johnston	Proc. Linn. Soc. N.S.W xxix., (6) 1904, p. 111	
Holostomum musculosum, John- ston Holostomum simplex, Johnston -	Sterna bergii, Licht. (duodenum) Ardea novac-hollandiae, Lath. (intestine)	Broken Bay, N.S.W. Broken Bay, N.S.W.	Johnston Johnston	Proc. Linn. Soc. N.S.W xxix., (6) 1904, p. 112 Proc. Linn. Soc. N.S.W xxix., (6) 1904, p. 112	$(9) \qquad (9)$
Monostomum album, K. et Hass. 1822 Monostomum reticulare, V. Ben. 1859	<i>Reptilia</i> " Sea-tortoise " " Sea-tortoise "	Ralum, Bis- marek Ar. Ralum, Bis- marek Ar.	Braun Braun	Centrbl. Bakter., xxv., 1899, (1) p. 723 Centrbl. Bakter., xxv., 1899, (1) p. 725	. (1) .

Record.	Centrbl. Bakter., xxv., 1899, (1)	Centrbl. Bakter., xxv., 1899, (1) n. 725	xvi., 1897, p.	xvi., 1897, p.	xxxvii., 1904,	p. 678 Agri. Gaz. N.S.W., ji., 1891, (7)	p. 014 Agri. Gaz. N.S.W., iii., 1892, (4)	, xv., 1907, p.	7 Trans. Ento. Soc. N.S.W., ii., (5)	Vic., xxi (2),	xvi., 1907, p.	xxv., 1906, p.	
Rec	Centrbl. Bakter. n 794	Centrbl. Bakter., n. 725	Aus. Med. Gaz., xvi., 1897, p.	71 Aus. Med. Gaz., xvi., 1897, p.	Centrbl. Bakter., xxxvii., 1904,	p. 678 Agri, Gaz, N.S.V	p. 014 Agri. Gaz. N.S.V	p. 522 Jour. Agri. W.A., xv., 1907, p.	Trans. Ento. Soc	Proc. Roy. Soc. Vic., xxi (2), 1908. 505	Aus. Med. Gaz. x	Aus. Med. Gaz., xxv., 1906, p.	160
Recorder.	Braun	Braun	Jamieson	Corlette	Linstow	Cobb	Perrie	Cleland	Krefft	Sweet	Newmarch	Stacy	. ,
Locality.	Ralum, Bis- marck Ar.	Ralum, Bis- marck Ar.	Sydney,	N.S.W. Sydney, N.c.W	Torres Sts.	Townsville, Q. Cobb	N.S.W.	Eastn. Aus.	N.S.W., Q'ld.	Wangaratta, Vic	Newcastle, N C W	Australia	
Host.	" Sea-tortoise "	" Sea-tortoise "	Mammalia Opisthorchis sinensis (Cobh, 1875) Homo (from China)	(Cobb, Homo (from China)	Halicore australis (lung)	(Zed., Bos taurus (rumen)	Bos taurus (rumen)	(Zed., Bos taurus (rumen)	Ovis aries	(Zed., Bos taurus	Homo	Homo (from South Africa)	
	ım, K. et Hass.	conocephalum,	is (Cobb, 1875)		onale, Linstow		cervi (Zed.,		cervi (Zed.,		haematobium	haematobium	
Species.	Monostomum rubrum, K. 1892	Monostomum trigonocephalum, (Rud. 1809)	Opisthorchis sinensi	Opisthorchis sinensis	Opisthotrema pulmonale,	Paramphistomum 1790)	Paramphistomum cervi 1790)	Paramphistomum 1790)	Paramphistomum	Paramphistomum 1790)	Schistosomum (Rilharz)		

Record.	Trans. Inter. Med. Cong. Aus.,	Agri. Gaz. N.S.W., xv., 1904, p. 659	Proc. Roy, Soc. Vic., i., 1888,	p. 109 Proc. Roy. Soc. Qld., vi., 1889, p. 61		Agri. Gaz. N.S.W., xvi., 1905,	P. 050 Agri. Gaz. N.S.W., iii., 1892, 2, 891	Agri. Gaz. N.S.W., xvi., 1905, p. 631	Agri. Jour. Vic., i., 1902, p.	Jour. Agri. and Ind. S.A., ix.,	Proc. Roy. Soc. Vic., xxi. (2), 1008. b. 505.	Jour. Agri. and Ind. S.A., ix., 1005.6 ., 910.959	Agri. Gaz. N.S.W., xvi., 1905, p. 628
Recorder.	Johnson	Cobb	Spencer	Bancroft		Cobb	Perrie	Cobb	Brown	Desmond	Sweet	Desmond	Cobb
Locality.	Australia	N.S.W.	Victoria	Queensland	IICESTODES.	N.S.W.	N.S.W.	N.S.W.	Victoria (?)	South Aus.	Victoria	S.E. S. Aus.	N.S.W.
, llost.	I	" Wallaby, Hare, and Rab- bit"	" Egg of Fowl"	" 14 birds (gall bladder, etc.")	Mammalia Mammalia	Equus cuballus (sm. intes.)	Equus caballus (sm. intes.)	Equus caballus (caecum and colon)	Equus caballus (intestine)	Equus cuballus (intestine)	Equus caballus (intestine)	Equus cuballus (sm. intes.)	Equus caballus (sm. intes.)
Species.	Schistosomum, sp.	ł	2	~~		Anoplocephala mammillana, Mohlis	Anoplocephala perfoliata (Goeze)	Anoplocephala perfoliata (Goeze)	Anoplocephala perfoliata (Goeze)	Anoplocephula perfoliata (Goeze)	Anoplocephala perfoliata (Goeze) Equus caballus (intestine)	Anoplocephala plicata (Rud) -	Anoplocephala plicata (Rud) (?)

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Record.	Agri. Gaz. N.S.W., xvi., 1905, p. 629	Zool. Auz. xxv., 1901, p. 357	Zeitschrift Wissen. Zool., lxv., 1898-9, p. 404, 440	Zool. Anz., XXI., 1895, P. 411 Zeit. Wissen. Zool., lxv., 1898- 9. n. 404.	 Zool. Anz., xxi., 1898, p. 481 Denk. Ges. Jena, viii.; Semon, v., 1898, p. 368 Zeit. Wissen, Zool., hxxi 	1906, p. 528 Zool. Anz., xxix., 1906, p. 127 Zeit. Wissen, Zool., lxv., 1898- 9, p. 404, 440	• Zool. Anz. xxi., 1898, p. 477 Zool. Anz., xxv., 1901, p. 357	Trans. Bato. Soc. N.S.W., ii, 1871 5, 914	Proc. Zool. Soc. Lond., 1865, p. 68
Recorder.	Cobb	Führmann	Zschokke	Zschokke	Janicki	Zschokke	Führmann	Krefft	Baird
Locality.	N.S.W.	Australia	Celebes and Zschokke North Aus.	N.E. Aus.	New Guinea Janicki	Celebes and North Aus.	New Guinea	N.S.W.	N.S.W.
Host.	Equus caballus (sm. intes.)	Ares Ptilorchis alberti (See Gyrocotyle)	<i>Mammalia</i> Phalanger ursinus (intes.)	Phaseolarctos cinereus	- Phalangista, sp.	Phalanger ursinus	<i>Ares</i> Paradisea raggiana	Rephilia Baird (?) Morelia spilotes (intestine)	Morelia spilotes (intestine)
Species.	Anoplocephala, sp. $(?)$	Aporina alba, Führmann - Amphiptyches -	Bertia edulis, Zsch.	Bertia obesa, Zsch.	Bertia rigida, Janicki	Bertia sarasinorum, Zsch.	Biuterina paradisea. Fuhrmann -	Bothridium arcuatum, Baird (?)	Bothridium arcuatum, Baird

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Record.	Proc. Zool. Soc. Lond., xxi., 1853 n 25	nals," p. 308 Cong. Aus.,	Trans. Inter. Med. Cong. Aus., 1905, p. 367-8 Trans. Enter. Set.8	1871, p. 227	Proc. Linn. Soc. N.S.W., i., (3) 1875-7, p. 12	Zeit. Wissen. Zool., lxxxi., 1906, p. 528	Zool. Anz., xxix., 1906, p. 128 Inter. Cat. Sc. Lit., vi., 1906,	Agri. Gaz. N.S.W., xvi., 1905, n. 910	Annals of Trop. Med. and Parasitolowy Eab. 1908	Agri. Gaz. N.S.W., xvi., 1905, n 319	Agri. Gaz. N.S.W., xvi., 1905,	p. 210
Recorder.	Baird	Cobbold Spencer	Hill Krofft		Macleay	Janicki		Cobb	Stephens	Cobb	Cobb	
Locality.	Australia (?)	Australia N.S.W.	Australia Oneensland		PortStephens Mucleuy N.S.W.	New Guinea		Sydney	Launceston, Tas	N.S.W.	N.S.W.	
llost.	Mammalia " Stomach and Intestine of a Southern Seal "	" Australian cat " Homo	Homo Halmaturus so	Pisces	Orthagoriscus mola (intes- tine)	Mammalia Macropus, sp.		Felis domestica (sm. intes.)	" Syrian man "	Canis familiaris (intestine)	Felis domestica (sm. intes.)	
Species.	Bothriocephalus antarcticus, Baird	Bothriocephalus decipiens - Bothriocephalus mansoni, Cob- bold	Bothrioccephalus nansoni, Cob- bold (larvæ) Bothriocephalus (1) marginatus.		Bothriocephalus microcephalus, Rud.	littotaenia zschokkei, Janicki -		replin	Dibothriocephalus parvus		Dipylidium ellipticum, Butsch	

llost.

Species.

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Record.	Proc. Linn. Soc. N.S.W., xxvii., 1902, p. 48 Trans. Roy. Soc. Vic., i. (part ii.), 1888, p. 138	C.R. Soc. Biol., vol. 52 C.R. Soc. Biol., vol. 52	Jour. Roy. Mic. Soc., June, 1893, iii. Zool. Anz., xix., 1896, p. 480 Zool. Anz., xxi., 1898, p. 478 Denk. Ges. Jena, viii.; Semon,	 v., 1898, p. 539 Zeit. Wissen. Zool., lxv., 1898- 9, p. 404 Zool. Anz., xix., 1896, p. 4 Denk. Ges. Jena, viii.; Semon, v., 1898, p. 359 	Inter. Cat. Sc. Lit., vi., 1906; Verm., p. 29	Zeit. Wissen. Zool., lxv., 1898- 9, p. 442
Recorder.	Haswell Spencer	Rátz Rátz	Thompson Zschokke	Zschokke	Janicki	Zschokke
Locality.	N.S.W. Australia	New Guinea New Guinea	N.E. Aus.	N.E. Aus.	New Guinea	Australia
Host.	<i>Pisces</i> Chimaera ogilbyi Callorhynchus antarcticus (mouth)	Reptilia Varanus, sp. Varanus, sp.	<i>Mammalia</i> Echidna hystrix (al. canal)	Perameles obesula (alim. canal)	Lyclopsittacus diopthalmus Mammalia	Macropus giganteus
Species.	Gyrocotyle (Amphiptyches) nigro- secosa, Haswell Gyrocotyle urna (Grube and Wagener)	Ichthrotaenia biroi, Rátz Ichthrotaenia saccifera, Rátz -	Linstowia (Taenia) echidnae, D'a. W. Thompson	Linstowia semoni, Zschokke -	Moniezia (Taenia) beauforti, Janicki -	Moniezia festiva (Rud.) -

	(6)							
Record.	"Parasites of Animals," p. 432 (9)	Entozoorum Synopsis, 1819, p. 146	Trans. Ento. Soc. N.S.W., ii., 1871, p. 210	Proc. Linn. Soc. N.S.W. (2), ix., 1894, p. 70	Centrbl. Bakter., xxviii., 1900, p. 846	Quart. Jour. Micr. Sci., xlvi., 1902. p. 399	Proc. Linu. Soc. N.S.W. (2), ix., 1894, p. 49	Proc. Linn. Soc. N.S.W. (2), ix., 1894, p. 61
Recorder.	Cobbold	Rudolphi	Krefft .	Hill	Diamare	Haswell	Hill	Hill
Locality.	Australia	Australia	Australia	N.S.W.	New Guinea	N.S.W.	N.S.W.	N.S.W.
Host.	Macropus giganteus (gall bladder and hepatic ducts) and Halmaturus derbyanus	Halmaturus giganteus (in- testine)	Macropus giganteus	Ungoenacta Didymogaster sylvatica, Fletcher (cyst.)	Aves Lorins erythrothorax and Cyclopsittacus sudvis- simus	<i>Pisces</i> Heterodontus phillipii	Reptilia Hoplocephalus superbus (cyst in peritoneum	around intestine) Lialis burtonii, Gray (cyst)
Species.	Moniezia festiva (Rud.) .	Moniezia festiva (Rud.) -	Moniezia festiva (Rud.) -	Monocorcus didymogastris, Hill-	Paronia carrinoi, Diamare -	Phyllobothrium vagans, Haswell	Piestocystis hoplocephali, Hill	Piestocystis lialis, Hill

				$(\tilde{2})$		(5)			
Record.	Proc. Linn. Soc. N.S.W. (2), viii., 1893, p. 365	Proc. Linn. Soc. N.S.W. (2), ix., 1894, p. 75	Vidensk. Selsk., Skr., 5; Raekke, Natur. vg Math., Afd. 8, Bd. vi., Kjoben- havn. 1869, p. 345	(v. Zool. Record, 1869, p. 635) Trans. Ento. Soc. N.S.W., ii, 1871, p. 919, 994	Proc. Ac. Nat. Sc. Phil., xxvii., 1875. p. 14	Cobbold " Parasites of Ani- mals," p. 432 Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 212, 224	Jour. of Agri. and Ind. S.	Agri. Jour. Vic., i., 1902, p.	014 Agri. Jour. Vic., i., 1902, p. 614
Recorder	Haswell and Hill	Hill	Krabbe	Krefft	Leidy	Krefit '	Feuerheerdt	Brown	Brown
Locality.	N.S.W.	N.S.W.	Australia (?)	N.S.W., Q'ld. Krefft	Zool. Gard., Leidy Lond.	N.S.W.	S.E. S. Aus.	Victoria	Victoria
Host.	Oligochaeta Didymogaster sylvatica, Fletcher (cyst) Pisees	Sciaena aquila (cyst in peritoneum) Avs	Dromaeus novae-hollandiae (stomach)	Anas superciliosa	Mammalia Phaseolomys, sp.	<i>Aves</i> Chlamydera maculata	<i>Mammalia</i> Canis familiaris	Canis familiaris	Ovis aries
Species.	Polycercus, sp.	Synbothrium, sp.	Taenia australis, Krabbe -	Taenia bairdii, Krefft -	Taenia bipapillosa	Taenia chlàmydera, Krefft	Taenia coenurus	Taenia coenurus	Coenurus cerebralis

			(\tilde{c})								$(\tilde{\mathbf{c}})$	
Record.	Aust. Vet. and Live Stock Jour. i 1890 n 193	Trans. Roy. Soc. S. Aus., vi., 1882-3, p. 178	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 213, 220	Agri. Jour. Vic., i., 1902, p. 698	Agri. Gaz. N.S.W., xvi., 1905, n 910	Agri. Gaz. N.S.W., iii., 1892,	Trans. Ento. Soc. N.S.W., ii., 1871 906	Agri. Gaz. N.S.W., iii., 1892,	Agri. Gaz. N.S.W., iii., 1892,	Jour. Agri. Vie., i., 1902, p. 614	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 212, 220	Jour. Agri. W.A., xv., 1907, p. 88
Recorder.	Kendall	Dixon	Krefft	Brown	Cobb	Perrie	Krefft	Perrie	Perrie	Brown	Krefft	Cleland
Locality.	Australia	South Aus.	N.S.W., Q'ld. Krefft	Victoria (?)	Sydney	N.S.W.	Australia	N.S.W.	N.S.W.	Victoria $(?)$	N.S.W.	West Aus.
Host.	- Ovis aries	Oris aries	A ves Himantopus leucocephalus	Relis domesticus (intestine)	Felis domesticus (intestine)	Felis domesticus (intestine)	Mus decumanus $(?)$	Mus musculus and Mus	Canis familiaris	Canis familiaris	Ānas superciliosa	Mammalia Bos taurus
	1	1	1	1	1	1	1	1	1	1	1	1
Species.	Coenurus cerebralis	Coenurus cerebralis (1)	Taenia coronata, Krefft	Taenia crassicollis	Taenia crassicollis	Taenia crassicollis	Cysticereus fasciolaris	Cysticercus fasciolaris	Taenia cucumerina	Taenia cucumerina	Taenia cylindrica Krefft.	Taenia denticulata
						471						

Record.	Trans. Roy. Soc. S. Aus., v., 1881-9 n 120	Zool. J.B., ii., p. 409-410	Agri. Gaz. N.S.W., xvi., 1905, n. 619	Agri. Gaz. N.S.W., xvi., 1905,	Aus. Med. Jour., vii., 1862, p.	Aus. Med. Jour., vii., 1862, p.	Aus. Med. Jour., vii., 1862, p. 9	Aus. Med. Jour., vii., 1862, p.	Aus. Med. Jour., vii., 1862, p. 973	Aus. Med. Jour., viii., 1863, p.	Aus. Med. Jour., viii., 1863, p.	Aus. Med. Jour., ix., 1864, p.	Aus. Med. Jour., ix., 1864, p.	Aus. Med. Jour., ix., 1864, p. 46
Recorder.	Davies- Thomas	von Lenden- feld	Cobb	Thomas	Motherwell	Robertson	Richardson	Tracy	Gilbee	Cooper	Dunn	Dowling	1	1
Locality.	South Aus.	Australia	N.S.W.	South Aus.	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Victoria	N.S.W.	N.S.W.
Species.	occus, von Sieb Canis familiaris	occus, von Sieb (?)	occus, von Sieb Canis familiaris	occus, von Sieb Canis familiaris	Echinococcus polymorphus - Homo (liver)	Echinococcus polymorphus - Homo (liver)	Echinococcus polymorphus - Hono (uterus)	Echinococcus polymorphus - Homo (uterus)	Echinococcus polymorphus - Homo (cheek)	Echinococcus polymorphus - Homo (kidney)	Echinococcus polymorphus - Homo (lung)	Echinococcus polymorphus - Homo (lung)	Echinococcus polymorphus Homo (brain)	Echinococcus polymorphus - Homo (thigh)
Spe	Taenia echinococcus,	Taenia echinococcus,	Taenia echinococcus,	Taenia echinococcus,	Echinococcus	Echinococcus	Echinococcus	Echinococcus	Echinococcus	Echinococcus	Echinococcus	Echinococcus	Echinococcus	Echinococcus

Species.	Host.	Locality.	Recorder.	Record.
Echinococcus polymorphus	- Homo (brain)	Australia	Atkinson	Aus. Med. Jour., xii., 1867, p. 290
Echinococcus polymorphus	- Ilomo	South Aus.	Davies- Thomas	Trans. Roy. Soc. S. Aus., iv., 1880-1, n. 161
Echinococcus polymorphus	- Homo	South Aus.	Davies- Thomas	Trans. Roy. Soc. S. Aus., vi., 1883. p. 11. 22
Echinococcus polymorphus	- Homo	Victoria	Davies- Thomas	Trans. Rov. Soc. S. Aus., vi., 1883. p. 9
Echinococcus polymorphus	- Homo	Tasmania	1)avies- Thomas	Trans. Rov. Soc. S. Aus., vi., 1883, p. 13
Echinococcus polymorphus	- Homo	Queensland	Davies- Thomas	Trans, Roy, Soc. S. Aus., vi., 1883, p. 12
Echinococcus polymorphus	- Homo	N.S.W.	Davies- Thomas	Trans, Roy, Soc, S. Aus., vi., 1883, p. 14
Echinococcus polymorphus Echinococcus polymorphus	- Ilono (brain) - Hono (brain)	Australia Australia	Hawkins Verco	Aus. Med. Gaz., 1882, p. 1 Trans. Inter. Med. Cong. Aus., 1887, p. 81
Echinococcus polymorphus	- Homo (brain)	Australia	Davies- Thomas	Trans. Inter. Med. Cong. Aus., 1887, p. 61
Echinococcus polymorphus	- Homo (brain)	Australia	Davies- Thomas	Trans. Inter. Med. Cong. Aus., 1889, p. 329
Echinococcus polymorphus	- Homo (brain)	Australia	Davies- Thomas	Trans. Inter. Med. Cong. Aus., 1892, p. 378
Echinococcus polymorphus	- Romo	Australia	Wills	Agri. Jour. Qld. ii., 1898, p. 490
Echinococcus polymorphus - Homo	- Homo	Australia	Johnson	Trans. Inter. Med. Cong. Aus., 1905, p. 380 ¹

1 Numerous other similar references are to be found in succeeding years of the Medical Journals.

Record.	Agri. Jour. Vie., i., 1902, p.	Proc. Linn. Soc. N.S.W., vili., 1883 980	Agri. Gaz. N.S.W., iii., 1892,	Jour. Agri. W.A., xv., 1907, p. 87	Jour. Agri. W.A., xv., 1907, p. 236	Proc. Roy. Soc. Vie., xxi. (2), 1908, p. 506	Vehr. Ver. Heidelb., v., 1870, p. 181-6	Ann. N.H. (4), viii., p. 295	Proc. Roy. Soc. Qld., vii., 1890,	Agr. Gaz. N.S.W., xvi., 1905,	p. 624 Agri. Gaz., iii., 1892, p. 821 " Parasites of Animals," p. 346.7	Aust. Vet. and Live Stock	Jour., 1., 1890, p. 193 Agri. Gaz. N.S.W., iii, 1892, p. 308
Recorder.	Brown	Mackellar	Perrie	Cleland	Clutterbuck	Sweet	Pagenstecker		Bancroft	Cobb	Perrie Cobbold	Kendall	Bruce
Locality.	Victoria	N.S.W.	N.S.W. N & W	West Aus.		Victoria	Cologne(Zoo) (1) infected	in Aus. or	Vologne Deception Ray, Old	Q. or N.S.W.	N.S.W. Trafalgar R., N.S.W	Victoria	N.S.W.
llost.	Homo : "and lower animals "	Ovis aries (liver and lungs)	Ovis aries (lung)	Cam's rammans (rung) Ovis aries Bos taurus	Sus scrofa	Oryctolagus cuniculus and Equus caballus	Macropus major (thorax)		Halmaturus dorsalis (lungs)	Halmaturus dorsalis (lungs)	Felis domestica Ovis arres (intestine)	Ovis aries (intestine)	Ovis aries (intestine)
Species.	Echinococcus polymorphus -	Echinococcus polymorphus -	Echinococcus polymorphus - Rehinococcus polymorphus	Echinococcus polymorphus -		Echinococcus polymorphus -	Echinococcus polymorphus -		Echinococcus polymorphus -	Echinococcus polymorphus -	Taenia elliptica Taenia expansa	Taenia expansa	Taenia expansa

Species.	llost.	Loeality.	Recorder.	Record.
Taenia expansa	- Ovis aries (intestine)	N.S.W.	Perrie	Agri. Gaz. N.S.W., iii., 1892,
Taenia expansa	- Ovis aries (intestine)	N.S.W.	Stewart	p. 821 Agri. Gaz. N.S.W., xi., 1900,
Taenia expansa	- Ovis aries (intestine)	Victoria	Brown	p. 837 Agri. Jour. Vie., i., 1902, p.
Taenia expansa	- Ovis aries (intestine)	Lefroy, Tas.	Willmot	ə22 Agri. Gaz. Tas., ix., 1902, p.
Taenia expansa	- Oris aries (intestine)	Swan Bay,	Willmot	222 Agri, Gaz. Tas., xii., 1904, p.
Taenia fimbriata, Krefit	- Halmaturus (1), sp.	ueensland	Krefft	⁰⁴ Trans. Ento. Soc. N.S.W., ii., (2) 1871, p. 212, 218
Taenia flavescens, Krefft	- Anas superciliosa Spatula rhynchotis	Q. or N.S.W. Krefft	Krefft	Trans. Ento. Soc. N.S.W., ii., (5) 1871 n. 919
Taenia forsteri, Krefft	- (see Tetrabothrius forsteri)			
Taenia geophiloides, Cobbold Taenia goezii	Mammatia - Phaseolaretos cinereus	Australia prob. Aus.	Cobbold Baird	"Proc. Zool. Soc. Lond., xxi,
Taenia goezii		prob. Aus.	Krefft	Trans. Ento. Soc. N.S.W., ii., 1871, p. 206
T _å cenia infundibuliformis	- Gallus domesticus (intestine)	Victoria (?)	Brown	Agri. Jour. Vic., i., 1902, p. 698

Species.	Host.	Locality.	Recorder.	Record.
Taenia lata	Mammalia - Ovis aries	N.S.W.	Bruce	Report Austn. Stock Confee.,
Taenia malleus]	Australia	Krefft	V1c., 1890, p. 84 Trans. Ento. Soc. N.S.W., ii.,
Taenia marginata	- Canis familiaris (stomach)	N.S.W.	Perrie	Agri. Gaz. N.S.W., iii., 1892,
Taenia marginata	- Canis familiaris (sm. intes.)	N.S.W.	Cobb	p. 821 Agri. Gaz. N.S.W., xvi., 1905,
Taenia marginata	- Canis familiaris	Victoria	Brown	p. 316 Agri, Jour. Vic., i., 1902, p.
Cysticercus tenuicollis	- Bos taurus, Ovis aries,	N.S.W.	Perrie	014 Agri. Gaz. N.S.W., iii., 1892,
Cysticercus tenuicollis	- Ovis aries (liver, lungs and Lound	West Aus.	Clutterbuck	p. 821 Jour. Agri. W.A., xv., 1907, p.
Cysticercus tenuicollis	- Ovis aries, Sus scrofa	West Aus.	Cleland	204, 236. Jour, Agri, W.A., xv., 1907, p.
Taenia mastersii, Krefft	(IIVEF, IUNES ANG NEAFL) - IIalmaturus (?), sp.	Queensland	Krefft	8; Trans. Ento. Soc. N.S.W., ii., (2)
Taenia mediocanellata	- Ilomo	Adelaide	Johnson	1871, p. 212, 221 Trans. Inter. Med. Congress
Taenia moschata, Krefft	Aves - Biziura lobata	N.S.W.	Krefft	Truns. Ento. Soc. N.S.W., ii., (5) A
Taenia mychocephala, Rátz	Rephilia - Varanus, sp.	New Guinea Rátz	Rátz	10(1, p. 213, 223 C.R. Soc. Biol., lii.

Species.	llost,	Locality.	Recorder.	Record.	1
Aves Taenia novae-hollandiae, Krefft - Podiceps australis	<i>Aves</i> Podiceps australis	N.S.W., Q'ld. Krefft	Krefft	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 213, 216	
Taenia ovilla, Rivolta -	Mammalia Ovis aries	West Aus.	Cleland	Jour. Agri. W.A., xv., 1907, p.	
Taenia ovilla, Rivolta (?) -	Ovis aries	Goulburn, N.S.W.	Cobb	Agri. Gaz. N.S.W., xiii., 1902, p. 796.	
Taenia paradoxa, Krefft	Aves Podiceps australis	N.S.W., Q'ld. Krefft	Krefft	Trans. Ento. Soc. N.S.W., ii., (5)	2)
Taenia pediformis, Krefft	Anas superciliosa	N.S.W., Q'ld. Krefft	$\mathrm{K}\mathrm{reft}$	Trans. Ento. Soc. N.S.W., ii., (5	(<u>)</u>
Taenia phalangista, Krefft -	Anas punctata Phalangista vulpina (alim. canal)	N.S.W., Q'ld. Krefft	Krefft	Truns. Ento. Soc. N.S.W., ii., (5) 1871, p. 213, 222	(2)
Taenia phoptica. Cobbold -	Mammalia Echidnu hystrix	Australia	Cobbold	"Parasites of Animals," p. 433 (9)	6
Taenia proglottina	Gallus domesticus (intes.)	Victoria (?)	Brown	Agri. Jour. Vic., i., 1902, p.	
Taenia rugosa, Krefft	Himantopus leucocephalus	N.S.W.	Krefft	Trans. Ento. Soc. N.S.W., ii., (5) A 1871, p. 213, 223	V (g
Taenia scrialis, Bailet $(?)$	Mammalia Canis familiaris	N.S.W.	Cobb	Agri. Gaz. N.S.W., xvi., 1905, n 318	
Coenurus serialis Baillet (?) -	Oryctolagus cuniculus	Victoria (?)	Sweet	Proc. Roy. Soc. Vic., axi. (2), 1908, p. 507	

	1					, (5)						
Record.	Agri. Gaz. N.S.W., xvi., 1905,	p. 314 Agri. Jour. Vic. i., 1902, p.	^{0.14} Proc. Roy. Soc. Vic., xxi. (2), 1908, p. 506	Proc. Zool. Soc. Lond., xxvii., 1850 n. 111	Trans. Ento. Soc. N.S.W., ii.,	1871, p. 211 Trans. Ento. Soc. N.S.W., ii., (5)	Proc. Zool. Soc. Lond., 1853,	P. 24 Trans. Ento. Soc. N.S.W., ii., 1871, p. 211	Agri. Gaz. N.S.W., iii., 1892,	p. 821 Agri. Gaz. N.S.W., iii., 1892,	p. 821 Agri. Dept. Q'land. Rept.,	1899, p. 97 Agri. Dept. Q'land. Rept., 1899, p. 97
Recorder.	Cobb	Brown	Sweet	Baird	Krefft	Krefft	Baird	Krefft	Perrie	Perrie	Pound	Pound
Locality.	N.S.W.	Victoria	Victoria	Australia (?) Baird		N.S.W., Q'ld. Krefft	Antarctic Oc. Baird		N.S.W.	N.S.W.	Queensland	Queensland
Host.	- Oryctolagus cuniculus (in-	- Oryctolagus cuniculus and	- Oryctolagus cuniculus and Lepus timidus	- Diomedea exulans (intes.)		- Nyroca australis	- "Stomach of Penguin"	Mammalia	- Canis familiaris	- Equus caballus	- Bos taurus	- Bos taurus
Species.	Taenia serrata, Goeze	Cysticercus pisiformis	Cysticercus pisiformis	Taenia sulciceps, Baird		Taenia tuberculata, Krefft	Taenia zederi, Baird		Taenia, sp.	Taenia, sp.	Taenia, spp.	Echinococcus, spp.
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		(3)		(3)			
Record.	Agri. Gaz. N.S.W., iii., 1892, p. 821	Proc. Linn. Soc. N.S.W., i., (3) 1875-7, p. 12 Centrbl. Bakter xxxv., 1904,	 p. 745 Centrbl. Bakter., xxxv., 1904, p. 745 	Proc. Linn. Soc. N.S.W., i., (3) 1875, p. 12	Zeit. Wissen. Zool., lxxxi., 1906, p. 520 Zool. Ang. xxvii., 1903-4, p.	Zool. Jahrb. Syst., zvii., p. 329 Agri. Gaz. N.S.W., iii., 1892,	p. e21 Agri. Gaz. N.S.W., iii., 1892, p. 821 Vic. Nat. Vic., xxi., 1904-5, p. 147
Recorder.	Perrie	Macleay Führmann	Rührmann	Macleay	Janicki	Boas Perrie	Pernie Nicholls
Locality.	N.S.W.	Port Stephens Macleay N.S.W. Port Jackson Führman	N.S.W. Port Jackson N.S.W.	PortStephens Macleay N.S.W.	Australia	Australia N.S.W.	N.S.W. Victoria (?)
Host.	Aves Gallus domesticus Pisces	Orthagoris M Delphinus	Piscos	Orthagoriscus mola (mus- cles and viscera) Mammalia	Petrogale penicillata (1) (alim. canal)	Petrogale penicillata (1) (alim. canal) Felis domestica	Ares Gallus domesticus Nycticorax caledonicus
Species,	Cysticercus, spp.	Cysticercus, spp Tetrabothrius forsteri (Krefft) -	Tetrabothrius triangulare -	Tetrabothrius reptans (Rud.) -	Triplotaenia mirabilis, Boas -	Triplotaenia mirabilis, Boas - l	

				(8)	(1) C (1)	$(\overline{0})$	
Record.	Proc. Roy. Soc. Qland, vi., 1889, p. 61	Vic. Nat. Vic., xxi., 1904-5, p. 147	Proc. Linn. Soc. N.S.W. (ii.), v., 1890, p. 661	Denk. Ges. Jena, viii., 1898; (8) Semon, v., p. 470	Arch. Naturg., lxiii., 1897, p. (1) C 286 Arch. Naturg., lxiii., 1897, p. (1) 282	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 212 Agri. Gaz. N.S.W., iii., 1892,	Agri, Gaz. N.S.W., xvi., 1905, p. 216
Recorder.	Bancroft	Kitson	Haswell	von Linstow	von Linstow von Linstow	K refft Pervie	Cobb
Locality.	Queensland	Victoria (?)	N.S.W.	III.—NEMATODES. Krefft N.E. Aus.	Ralum, Bis- mark Arc. Ralum, Bis- marck Ar.	$\begin{array}{c} \mathrm{N.S.W.}\\ \mathrm{Q^{ld.}}\\ \mathrm{N.S.W.} \end{array}$	N.S.W.
Host.	" Muscles, Peritoneal Cavity, etc., in 14 Birds"	<i>Reptilia</i> Hoplocephalus curtus (intes.)	Amphibia Hyla aurea (subcutaneous lymph spaces)	TII.—NE <i>Pisces</i> Ceratodus forsteri, Krefft (alim. canal) (see Uncinaria)	A ves Carpophaga brenchleyi (Gray), (eye cavity) Baza bismarcki, Sharpe Ninox odiosa, Sil. (al. canal)	Mammalia Felis domestica Felis domestica	Felis domestica (intestine)
	1	•	1	, ∖	× '	4 1	1
Species.	1	64	-	Amblyonema terdentatum, Linstow Anchvlostomum	Ancyracanthus opthalmicus, Linstow Ascaris australis, v. Linstow	Ascaris canis, Werner Ascaris canis, Werner	Ascaris canis, Werner

Species.	llost.	Locality.	Recorder,	Record.	
Ascaris canis, Werner	- Canis familiaris Relis Jenestion	Victoria (?)	Sweet	Proc. Roy. Soc. Vic., xxi. (2),	
Ascaris eperlani (?)	- Dasypus hallucatus	N.F. Aus.	von Linstow	1908, p. 515 Denk. Ges. Jena. viii., 1898; (8)	
Ascaris hunbricoides	Sus scrofa	N.S.W.	Perrie	Semon, v., p. 471 Agri. Gaz. N.S.W., iii., 1892, (4)	
Ascaris lumbricoides	- Sus scrofa	West Aus	Cleland	p. 821 Jour. Agri. W.A., xv., 1907, p.	
Ascaris lumbricoides Ascaris marginata	- IIomo - Canis familiaris (stomach)	Victoria N.S.W.	Sweet Perrie	88 Proc. Roy. Soc. Vic., 1909, p. Agri. Gaz. N.S.W., iii., 1892 (4)	
	Piscos		Cobb	p. 821 Agri. Gaz. N.S.W., xvi., 1905,	
Ascaris marina (immature) -	- Thyrsites atun (peritoneum)	Victoria	Sweet	p. 316 Proc. Roy. Soc. Vic., xxi. (2),	
Ascaris megalocephala, Cloquet -	Mammatia - Equus caballus (stomach, duodenum, caecum)	S.E. S. Aus.	Desmond	1908, p. 516 Jour. Agri. and Ind. S.A., vii., 1903-4. p. 570; ix., 1905-	
Ascaris megalocephala, Cloquet - Ascaris megalocephala, Cloquet -	- Equus caballus (sm. intes.) - Equus caballus	Victoria (?) Ralum, Bis-	Brown von Linstow	6, p. 252 Australasian, 1897, ii., p. 224 Arch. Naturg., lxiii., 1897, p. (1) O	0
Ascaris megalocephala, Cloquet -	- Equus caballus	marck Ar. N.S.W.	Perrie	282 Agri. Gaz. N.S.W., iii., 1892,	
Ascaris megalocephala, Cloquet -	- Equus caballus	Victoria	Sweet	p. 821 Proc. Roy. Soc. Vic., xxi. (2),	
Asearis mystax	- (see Ascaris Canis)			1908, p. 514	

Species.		Locality.	Recorder.	Record.	
Ascaris papillifera, v. Linstow	Reptilia - "Alim. canal of snake"	Ralum, Bis- marck Ar.	von Linstow	Arch. Naturg., lxiii., 1897, p. (1) 281	(1)
Ascaris similis, Baird	Mammalia . "Stomach of a Seal "	Antarctic Seas	Baird	Proc. Zool. Soc. Lond., xxi., 1853, p. 18-25	а
			Krefft	Trans. Ento. Soc. N.S.W., ii., 1871, p. 211	
Ascaris suilla Ascaris, sp.	 (see Ascaris lumbricoides) Delphinus forsteri 	Australian Waters	Krefft	Trans. Ento. Soc. N.S.W., ii., (5) 1871, n 212	(5)
Ascaris, sp.	- Ovis aries	N.S.W., Q'ld.	Krefft	Trans. Ento. Soc. N.S.W., ii., (5) 1871 p. 919	$(\overline{5})$
e Ascaris, sp.	- Perameles nasuta	N.S.W., Q'ld. Krefft	Krefft	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p 212	(5)
Ascaris (l) , sp.	A ves - Nycticorax caledonicus,	Ralum, Bis-	von Linstow	Arch. Naturg., lxiii., 1897, p. (1) C	(1) C
Ascaris, sp.	Gmelin - Gallus domesticus	marck Ar. N.S.W.	Perrie	Agri. Gaz. N.S.W., iii., 1892, ., 891	(4)
Ascaris, sp.	- Plotus novae-hollandiae	N.S.W., Q'ld. Krefft	Krefft	Trans. Ento. Soc. N.S.W., ii., 1871 n 213	(5)
Ascaris, sp.	- Anthochoera carunculata	N.S.W., Q ⁴ d.	Krefft	Trans. Ento. Soc. N.S.W., ii, 1871 n 213	(2)
Ascaris, sp.	- Columba livia	N.S.W., Q'ld. Krefft	Krefft	Truns, Ento. Soc. N.S.W., ii., 1871, p. 212	(\tilde{a})
Ascaris, sp.	Reptilia - Elseya dentata	Queensland Krefft	Krefit	Trans. Ento. Soc. N.S.W., ii., (2) 1871, p. 213	(2)

	(\tilde{c})	$(\tilde{\mathbf{c}})$	(\tilde{c})	$(\bar{2})$	(1)					
Record.	Truns. Ento. Soc. N.S.W., ii., (5)	Trans. Ento. Soc. N.S.W., ii., (5) 1871 5, 201	Trans. Ento. Soc. N.S.W., ii., 1871, p. 214	Trans. Ento. Soc. N.S.W., ii., (2) 1871, p. 214	Arch. Naturg., lxiii., 1897, p. (1) 286	Proc. Roy. Soc. Vic., XXI. (2), 1008, 0, 513	Proc. Roy. Soc. Vie., xxi. (2), 1008. 511	Agri. Gaz. N.S.W., iii., 1892,	Proc. Roy. Soc. Vic., xxi. (2), 1908. n. 511–512	Jour. Agri. and Ind. S.A., vii., 1904. p. 569
Recorder.	Krefft	Krefit	Krefit	Krefit	von Linstow	Sweet	Sweet	Perrie	Sweet	Desmond
Locality.	N.S.W.	N.S.W.	N.S.W.	Queensland	Ralum, Bis- marek Ar.	Horsham, V.	Horsham, V. Sweet	N.S.W.	Horsham, V. Sweet	Port Pirie, Hawker, Yorke'sPn., S. Aus.
Host.	Himulia whitei	Phyllurus milinsii	Morelia spilotes Morelia variegata	<i>Pisces</i> Ceratodus forsteri	Mammatia Macropus Drowni, Rams. (Oes., stom., and large intestine)	Equus caballus	Equus caballus	Equus caballus	Equus caballus	Equus caballus (tumours in stomach)
Species.	Ascaris, sp.	Ascarís, sp.	Ascaris, sp.	Ascaris, sp.	Cloacina dahli, v. Lınstow -	Cylichnostomum calicatum	Cylichnostomun poculatum -	Cylichnostomum tetracanthum -	Cylichnostomum, spp.	Pochmius hypostomus -

Record.	"Parasites of Ammals," p. 346-7	Agri. Gaz. N.S.W., iii., 1892,	p. 022 Agri. Gaz. N.S.W., iii., 1892, p. 822	Australasian, 1896, ii., p. 1262 (10) Arch. fur. mikr. Anat., xlix., 1897, p. 610	Trans. Inter. Med. Cong. Aus.,	1889, p. 51 Aus. Med. Jour., ns., iv., 1882,	p. 361	Aus. Med. Gaz., XII., 1093, p. 258	Aus. Med. Gaz. xxii., 1903, p.	Proc. Roy. Soc. Qld. xv., 1900,	P. 127 Trans, Inter. Med. Cong. Aust.,	Jour, and Proc. Roy. Soc. N & W 1200 12	Aus. Med. Gaz., xxiii., 1903, p. 40 251
Recorder.	Cobbold	Perrie	Perrie	Brown von Linstow	Bancroft				Flynn	Colledge	Johnson	Bancroft	Bancroft
Locality.	Trafalgar R., N S W	N.S.W.	N.S.W.	Darling, Vic. Australia	Brisbane				Queensland	Queensland	Adelaide	Brisbane	Brisbane
Host.	Ovis aries (lumen of intes.)	Ovis aries (lumen of intes.)	Sus scrofa	(see Filaria loa) Equus caballus (kidneys) Petrogale penicillata, Gray (body cavity)	Homo				Homo	Homo	Homo	Metamorphosis in Culex	Culex fatigans
Species.	Dochmius hypostomus	Dochmius hypostomus	Dochmius dentatum	Dracunculus oculi Eustrongylus gigas Filaria australis, Linstow	Filaria bancrofti, Cobb -				Filaria bancrofti, Cobb	Filaria bancrofti, Cobb	Filaria bancrofti, Cobb	Filaria bancrofti, Cobb	

Sheeres.		llost.	Locality.	Recorder.	Record.	
Filaria (?) bicolor (Spiroptera (?) Galaxias attenuatus bicolor), v. Linst w	(1)	P_{isces} Galaxias attenuatus	South Aus.	von Linstow	von Linstow Mt. Mus. Berlin, i., Heft. 2, p.	1
Filaria bronchialis	1	Mammalia Bos taurus (young), (lungs)	Victoria	Brown and	Agri, Jour. Vic., i., 1902, p.	
Filaria bronchialis		Ovis aries (lungs)	N.S.W.	Bruce	339 Rept. Aust. Stock Confee. Vic., 1300 84	
					Agri. Gaz. N.S.W., iii., 1892, p. 308	
Filaria demarquayi	ı	Home (bleed)	New Guinea	Manson	" Tropical Diseases," London,	
Filaria dentifera, v. Linstow		Phalangista vulpecula, var.	N.E. Aus.	von Linstow	1898;	(8)
Pilaria hepatica, v. Linstow	i.	typicus Pteropus neohibernicus Director Arits Aristev	Ralum, Bis-	von Linstow	Semon, v., p. 469 Arch. fur Naturg., lxiii., 1897, (1) C	(1) C
Filaria immitis, Leidy	r	Intermediate host in Culex skusii (Giles) = Culex	mærek Ar. Queensland	Bancroft	p. 282 Jour. and Proc. Roy. Soc. N.S.W., xxxv., 1901, p.	
		fatigans, Wied.			141; and xxxvii., 1903, p. 254	
					Aus. Med. Gaz., xxii., 1903, p. 951	
Filaria immitis, Leidy	I.	Intermediate host in Ano- pheles maculinemnis	Queensland	Buneroft	Jour. Proc. Roy. Soc. N.S.W., vvvv 1901 n 41	
Filuria loa Filaria medinensis	1.1	Equus caballus (eye) Homo $(?)$	Vietoria (?) Melb., from D	Brown Maegillivray	Australasian, 1896, ii., p. 1262 (10) Aus. Med. Jour., v., 1860, p.	(01
			Dompay		1/2	

Species.	Host.	Locality.	Recorder.	Record.
Filaria medinensis (embryos)	- Homo (?)	Australia (?)	Johnson	Trans. Inter. Med. Cong. Aus.,
Filaria nocturna Filaria osleri Filaria roemeri, v. Linstow	 (see Filaria bancrofti) Canis familiaris (lungs) Macropus antilopinus 	Melbourne Australia	McLaughlin von Linstow	1905, p. 380 Australasiun, 1897, i., p. 855 Arch. Mikr. Anat., lxvi., p. 356
Filaria sanguinea	- Galaxias scriba (stomach)	Australia	Baird	Proc. Zool. Soc. Lond., 1861,
Filaria spelaca, Leidy	Manmalia - " Wallaby (abdominal cuvity) "	Australia	Leidy	Proc. Ac. Nat. Sc. Phil., xxvii., (11) 1875, p. 17
Filaria tricuspis, Fedtsch	<i>A tes</i> - Cisticola exilis, Vig Horsf. Graucalus sclateri, Finsch. Calornis metallica, Tecma.	Ralum, Bis- marek Ar.	von Linstow	Tranastics of Animats, p. 455 Arch. fur Naturg., lxiii., 1897 (1) C p. 282
Filaria websteri, Cobbold	Mammalia - Macropus giganteus (knee- ioint)	Australia	Cobbold	". Parasites of Animals," p. 433 (12) D
Filaria websteri, Cobbold	- Macropus major (cysts in knee joint)	N.S.W.	Fletcher	Proc. Linn. Soc. N.S.W. (s. 1), viii. 1883 n 388
Filaria, sp.	- Homo (?)	Adelaide	Johnson	Trans. Inter. Med. Cong. Aus.,
Filaria, sp.	- Halmaturus bennetti (Peri- cardium)	I	Risig	1905, p. 380 Zeit. Wissen. Zool., xx., 1870, p. 99

	, p. D	89,	89,	. p. (1) C	. p. (1) C	Υ.,		(2),
Wecold.	xxi 1853,	ng. Aus., 18	. Qld., vi., 18	, 1xiii., 1897.	lxiii., 1897,	oc. N.S.W., 29	vii p. 377	. Vie., xxi. (23
	Proc. Zool. Soc., xxi., 1853, p. 68	Inter. Med. Cong. Aus., 1889, p. 50	Proc. Roy. Soc. Qld., vi., 1889, p. 53	Herbertshöhe, von Linstow Arch. Naturg., lxiii, 1897, p. (1) C Bismarck Arch.	Arch. Naturg., lxiii., 1897, p. (1) C 286	Proc. Linn. Soc. N.S.W., v., 1880, p. 629	Arch. Parasit., vii., p. 377	Proc. Roy. Soc. Vic., xxi. (2), 1908, p. 523
Kecorder.	Crisp	Bancroft	Bancroft	von Linstow	von Linstow	Brazier		Sweet
Lecanty.	I		Queensland	Herbertshöhe, Bismarck Arch.	Ralum, Bis- marck Ar.	N.S.W.	N. Caledonia	Victoria
Host.	- "Kneejoint of Kangaroo"	- Macropus major Arcs	 " in blood, peritonal cavity, muscles of thigh, and pericardium of 14 birds especially, Eury- stomus pacificus, Gyn- norrhina tibreeu, Crac- ticus torquatus, Tri- choglossus novae-hol- handiae" 	- Centropus ateralbus, Less. (body cavity)	 Ninox odiosa, Scl. 	. "Imported salt herrings"		. Bos taurus
Species.	Filaria, sp.	Filaria (1), sp.	Filaria, spp.	Filaria, sp.	Filuria, sp.	Filaria, sp.	Filaria, sp	Gongylonema scutatum

										(1) C		
Record.	Rept. Aus. Stock Conf. Vic., 1890, p. 84 Agri. Gaz. N.S.W., iii., 1892, ., 308	Agri. Gaz. N.S.W., iii., 1892, n. 891	"Parasites of Animals," p. 346-7	Report of Dept. of Agri., Queensland, 1897-8, p. 88	Agri. Gaz. N.S.W., xi., 1900, n 837	Agri. Gaz. Tas., xii., 1904, p. 64	Agri. Jour. Vic., iii., 1905, p. 340	Agri. Gaz. Tas., xv., 1907, p. 218	Agri. Jour. Qld., 1908, Aug., p. 92	Arch. Naturg., lxiii., 1897, p. (1) C	Boll. Mus. Genova, 1902, No.	Agri.Gaz. N.S W., vii., 1896, p. 747 ; and ix., 1898, p. 316
Recorder.	Bruce	Perrie	Cobbold	Barnes	Stewart	Willmot	Brown	Weston	Dodd	von Linstow	Stossich	Cobb
Locality.	N.S.W.	N.S.W.	Trafalgar Bay N.S.W.	Blackwater, Mackenzie Dist., O'ld.	N.S.W.	Swan Bay, Tasmania	Victoria $(?)$	Tasmania	Queensland	Ralum, Bis-	marck Ar. New Guinea	N.S.W.
Host,	Ovis aries (stomach)	Ovis aries (stomach)	Ovis aries (stomach)	Ovis aries (4th stomach) Bos taurus	Ovis aries	Ovis aries (abomasum)	Ovis aries	Ovis aries	Ovis aries	Ares Macropygia nigrirostris Solood (m. interio)	Circus spilothorax	Gallus domesticus (small intestine)
Species.	Haemonchus contortus	Haemonchus contortus	Haemonchus contortus	Haemonchus contortus	Haemonchus contortus	Haemonchus contortus	Haemonchus contortus	Haemonchus contortus	Haemonchus contortus	Heterakis australis, v Linstow -	Heterakis dolichocerca, Stossich	Heterakis inflexa

				(8)							
Record.	Agri. Gaz. N.S.W., xvi., 1905,	Agri. Gaz. N.S.W., vii., 1896, p. 748	Agri. Gaz. N.S.W., ix., 1898, p. 299	Denk. Ges. Jena, viii.; Semon, (8)	V., 1696, P. 409 Agri. Gaz. N.S.W., ix., 1898, p. 421	Agri. Gaz. N.S.W., ix., 1898, p. 315, 453	Rept. of Dept. of Agri., Qld., 1897-8, p. 88	Rept. Dept. Agri. Qld., 1892	Agri. Gaz. N.S.W., iii., 1892,	P. 022 Arch. Naturg., 1xx., 1904, p. 300	Centrol. Bakter., xxxvi., 1904, p. 550
Recorder.	Cobb	Cobb	Cobb	von Linstow	Cobb	Cobb	Barnes	Bancroft	Perrie	von Linstow	Schneider
Locality.	N.S.W.	N.S.W.	Moss Vale, N.S.W.	N.E. Aus.	N.S.W.	Moss Vale, N.S.W.	Mackenzie & Blackwater	Dist., Q Id. Queensland (ren. nonte)	N.S.W.	Australia	
Host.	Gallus domesticus (egg)	Gallus domesticus (caecum)	Myriapoda Julus, sp. (intestine)	Perameles obesula (intes.)	1	Insectu " Insect larvae " Manualia	Bos taurus, Ovis aries (abomasum and intes-	une) Bos taurus (intestines)	Equus caballus	I	
Species.	Heterakis inflexa	Heterakis papillosa	Heth juli -	Hoplocephalus cinctus, Linstow	(nee cuvier, 1892) - Labyrinthostoma, sp., Cobb -	Lepidonema bifurcata, Cobb -	Oesophagostomum columbianum	$\operatorname{Oesophagostomum}_{\ell,\eta}$	0xyuris curvula -	Oxyuris tuberculata	

Species.	Host.	Locality.	Recorder.	Record.
Oxyuris vermicularis	- Homo Ares	N.S.W.	Cobb	Jour. Linn. Soc. N.S.W. (ii.), v., 1890, p. 168
Oxyuris, sp.	 Gallus domesticus Reptilia 	N.S.W.	Perrie	Agri. Gaz. N.S.W., iii., 1892, p. 822
Physaloptera, sp.	- Diemenia reticulata	N.S.W.	Krefft	Trans. Ento. Soc. N.S.W., ii., (5)
Physaloptera, sp.	- Cyclodus gigas	N.S.W.	Krefft	Trans. Ento. Soc. N.S.W., ii., (5)
Physaloptera, sp.	- " Alnu, Canal of Snake"	Ralum, Bis- marck Ar.	von Linstow	¹⁵¹¹ , p. 21 4 Arch. Naturg., lxiii., 1897, p. (1) 286
Pseudalius inflexus	Mammalia - Delphinus phocaena (oeso- phagus and hronchi)	Aus. Seas (?)	von Linstow	Aus. Seas (?) von Linstow Arch. Naturg., xlvi., 1880, p. 49
Pseudalius minor	Delphinus phocaena (tym- panic cavity), and Delphinus communis	Aus. Seas $(?)$	von Linstow	Aus. Seas (?) von Linstow Arch. Naturg., xlvi., 1880, p. 48
Sclerostomum edentatum	- Equus caballus	Horsham, Vic. Sweet	Sweet	Proc. Roy. Soc. Vic., xxi. (2),
Sclerostomum equinum	- Equus caballus	Victoria (?) Brown	Brown	1908, p. 201 Agri. Jour. Vic., iii., 1905, p.
Sclerostoma pinguicola, Verrill -	- Sus scrofa	Australia	Morris and Cobbold	144 M. Mier. Jour., vi., p. 243-8

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Record.	Agri. Gaz. N.S.W., xix., 1907, n 634	Aus. Med. Gaz., xii., 1893, p. 958	0	Proc. Roy. Soc. Vie., xxi. (2).	1908, p. 208 Agri. Jour. Vic., ii., 1904, p. 243	Arch. Naturg., Ixiii., 1897, p. (1) 286	Jour. Dept. Agri. W.A., xii., 1905. p. 60	Australasian, 1896, ii., p. 1262 Brit. Med. Jour., 1896, ii., p. 1542	Jour. Agri. and Ind. S.A., ix., 1905-6, p. 252	Agri. Gaz. N.S.W., iii., 1892.	Agri. Gaz. N.S.W., iii., 1892, p. 822
Recorder,	Musson	Bancroft		Sweet	Weir	von Linstow	Weir, Le Souef, Edward	Brown	Desmond	Perrie	Perrie
Locality.	K urrajong, N S W	N.S.W., Q'ld.		Horsham, V. Sweet	Sale, Vic.	Ralum, Bis- marek Ar.	Kimberley, W.A.	Darling, Vic.	Southern South Aus.	N.S.W.	N.S.W.
Ilost.	Verrill - Sus scrofa	Sus scrofa	(see Syngamus trachealis) (see Cylichnostonum tetra- amphana)	Equus caballus	Equus caballus (stomach)	"Abdominal cavity of Frog"	Mammalia Equus cabidhus	Oryctolagus cuniculus	Equus caballus (stomach)	Equus caballus (stomach)	- Equus coballus (stomach)
Species.	Sclerostoma pinguicola, Verrill -	Sclerostoma pinguicola, Verrill -	Sclerostomum syngamus - Sclerostomum tetracanthum -	Sclerostomum vulgare	Sclerostomum, sp.	Spiroptera furcata, v. Linstow -		Spiroptera megastoma	Spiroptera megastoma -	Spiroptera megastoma	Spiroptera microstoma -

Species.	Host.	Locality.	Recorder.	Record.
Spiroptera strongylina -	Sus scrofa	N.S.W.	Perrie	Agri. Gaz. N.S.W., iii., 1892,
Spiroptera, sp.	Bos taurus (nodules in muscles)	West Aus.	Cleland	Jour. of Agri. W.A., xv., 1907, p. 88
Stephanurus dentatus Streptogaster papillatus, Cobb	(see Sclerostóma pinguicola) (1Parasitic)	N.S.W.	Cobb	Agri. Gaz. N.S.W., ix., 1898,
Strongylus apri	Sus scrofa	N.S.W. or Q. Krefft	Krefft	Trans. Ento. Soc. N.S.W., ii., (5) 1871 n. 919
Strongylus apri	Sus scrofa	N.S.W.	Perrie	Agri. Gaz. N.S.W. iii., 1892,
Strongylus apri	Sus scrofa (lungs)	West Aus.	Clutterbuck	P. 021 Jour. Agri. W.A., xv., 1907,
Strongylus armatus (sic) -	Equus caballus (large in-	N.S.W.	Perrie	P. 200 Agri, Gaz. N.S.W. iii., 1892,
Strongylus armatus (sic) -	testine) Equus caballus (colon and	S.E. S. Aus.	Desmond	Jour. Agri. and Ind. S.A., vii.,
Strongylus armatus (sic)	mesenteric artery) Equus caballus (blood, in- testine muscles and	Southern South Aus.	Desmond	Jour. Agri. and Ind. S.A., ix, 1905, p. 252
Strongylus canis bronchialis - Strongylus contortus -	arteries) (see Filaria osleri) (see Haemonchus contortus)			
Strongylus filaria	Ovis aries (lungs)	N.S.W., Q'ld. Krefft	Krefft	Trans. Ento. Soc. N.S.W., ii., (5)
Strongylus filaria	Ovis aries (lungs)	Trafalgar R., Cobbold N.S.W.	Cobbold	''Parasites of Animals," p. 347

Species. Strongylus filaria	- Ovis aries (lungs)	Locality. Victoria (?)	Recorder. Brown	Record. Anstralasian, 1897, i., p. 1168
	- Ovis aries (lungs)	N.S.W.	Stewart	388 Aus. Med. Jour., v., 1883, p. 153 Agri. Gaz. N.S.W., xi., 1900,
	- Ovis aries (lungs)	Victoria $(?)$	Brown	p. 839 Agri. Jour. Vie., ii., 1904, p.
				Agri. Jour. Vic., iii., 1905, p.
	- Ovis aries (lungs)	Swan Bay, Tasmania	Willmot	Agri. Gaz. Tas., xii., 1904, p. 64
	- Ovis aries (lungs)	Bishopsbo'rne, Tasmania	Weston	Agri, Gaz, Tas., xv., 1907, p. 217
	- Ovis aries (lungs)	West Aus.	Cleland	Jour. Agri. W.A., xv., 1907, p.
	- Ovis aries (lungs)	West Aus.	Clutterbuck	Jour. Agri. W.A., xv., 1907, p.
Strongylus mierurus	- Equus caballus	N.S.W.	Perrie	Agri. Gaz. N.S.W., iii., 1892, n. 891
Strongylus mierurus	- Bos taurus (lungs)	West Aus.	Cleland	Jour Agri. W.A., xv., 1907, p.
	- Bos taurus (lungs)	West Aus.	Clutterbuck	Jour Agri, W.A., xv., 1907, p. 236
Strongylus paradoxus	- (see Strongylus apri)			

Record.	Boll. Mus. Genova, 1902, No. 116	Agri. Gaz. N.S.W., xi., 1900, p.	Jour. Agri. W.A., xv., 1907, p.	Jour. Agri. W.A., xv., 1907, p.	Agri. Gaz. Tas., xv., 1907, p.		Agri. Jour. Vic., ii., 1904 , p. 73, 175		Aus. Med. Jour., 1870, p. 318	Aus. Med. Jour., 1871, p. 224	Aus. Med. Gaz. xxi., 1902, p. 120, 415
Recorder.	Stossich	Stewart	Cleland	Clutterbuck	Weston		Brown		1	1	Johnson
Locality.	Australia	N.S.W.	West Aus.	West Aus.	Bishopsbo'rne, Weston Tramania	T CONTRACTOR	Victoria (?)		Hobart (from	Germany) Richmond, N & W	Adelaide
llost.	Reptilia Amphibolurus muricatus	Mammalia Ovis aries (lungs)	Ovis aries (lungs)	Ovis aries (lungs)	Ovis aries (lungs)	(see Strongylus apri) (see Cylichnostomum tetra- canthum)	<i>Ares</i> Gallus domesticus	(see Trichinella spiralis)	Mammalia Homo	Homo $(?)$	- Ilomo
4 Species	Strongylus paronai, Stossich -	Strongylus rufescens	Strongylus rufescens	Strongylus rufescens	Strongylus rufescens	Strongylus suis Strongylus tetracanthum	Syngamus trachealis	Trichina spiralis	Trichinella spiralis	Trichinella spiralis	Trichinella spiralis

Species.	Host.	Locality.	Recorder.	Record.
Trichinella spiralis	- Homo (?)	Adelaide	Johnson	Trans, Inter, Med. Cong. Aus., 1905 n 370 380
Trichocephalus affinis	Ovis aries	N.S.W.	Perrie	Agri. Gaz. N.S.W., iii., 1892, n. 89.9
Trichocephalus affinis	- ()vis aries (caecum)	Swan Bay, Tasmania	Willmot	Agri. Gaz. Tas., xii., 1904, p. 64
Trichocephalus crenatus	Sus scrofa	N.S.W.	Perrie	Agri, Gaz, N.S.W., iii., 1892,
Trichocephalus dispar	Homo (caecum)	N.S.W., Q'ld. Baneroft	Baneroft	P. 022 Aus. Med. Gaz., xii., 1893, p. 053
Trichocephalus dispar	Homo (caecum)	N.S.W., Q'Id. Mollison	Mollison	Inter, Med. Jour. Aus., iii., 1898 p. 417
Trichocephalus dispar	- Homo (caecum)	Brisbane	Lawes	Aus. Med. Gaz. xiv., 1895, p.
Trichocephalus hepaticus, Ban- Mus rattus (liver) croft	Mus rattus (liver)	Brishme	Bancroft	Jour. and Proc. Rov. Soc. N.S.W., xxvii., 1893, p. 89
nalus (i) , sp.	Pisces - "from large percoid fish"	N.S.W.	Krefft	Trans. Ento. Soc. N.S.W., ii., (5) 1871, p. 214
Triodontophorus intermedius	Mammalia Equus caballus	Horsham,V.	Sweet	Proc. Roy. Soc. Vic., xxi. (2), 1008
Uncinaria duodenale	- Ilomo	Queensland	Hogg	Aus. Med. Gaz., viii., 1888-9,
				Brit. Med. Jour., 1889, i., p. 792
Uncinuria duodenale	- Homo	Queensland	Gibson and Turner	Truns, Med. Cong. Aust., 1892, p. 134

Record.	Aus. Med. Gaz. xii., 1893, p.	Aus. Med. Gaz., xiv., 1895, p. 445	Proc. Roy. Soc. Q'land, xi., 1805, n ao	Aus. Med. Gaz. xxi., 1902, p. 66	Aus. Med. Gaz., xxvii., 1908,	p. 121 Agri. Gaz. N.S.W., iii., 1892,	P. 022 Aus. Med. Gaz., xv., 1896, p.	482 Aus. Med. Gaz., xxv., 1906, p. 399	Agri. Gaz. N.S.W., ix., 1898, p. 315	Agri. Gaz. N.S.W., ix., 1898, n. 312, 340-1	Aus. Med. Gaz. xv., 1896, p.	^{4.82} Aus. Med. Jour., xix., 1874, p. 324
Recorder	Bancroft	Lawes	Turner	Bancroft	O'Brien	Perrie	Ashworth	Hamilton- Kenny	Cobb	Cohh	Ashworth	Tassell
Locality.	Queensland	Brisbane	Cairns, etc., O'ld and	N. N.S.W. Queensland	Queensland	N.S.W.	Brisbane	Queensland	Moss Vale, N.S.W.	Moss Vale, N.S.W.	Brisbane	Victoria
llost.	- Homo	Homo	Homo	Homo	Homo	Canis familiaris	Homo	Homo	<i>Insecta</i> Pasalus, sp. (intestine)	Mammalia "Stomach of Brush Wal- laby"	Homo	- Homo (eye)
Species.	Uncinaria duodenale -	Uncinaria duode nale -	Uncinaria duodenale	Uncinaria duodenale	Uncinaria duodenale -	Uncinaria trigonocephala -	Uncinaria, sp.	Uncinaria, sp.	Xyo hystrix, Cobb.	Zoniolaimus setifera, Cobb	1	1

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iii.,	, p.	, p.	392,	ept.	, p.	, p.	iv.,	. p.	, p.	ii., (13)	us.,
Inter. Med. Jour. Aus.,	1898, p. 416 Aus. Med. Gaz., xvi., 1897	135 Jour. Agri. W.A., xv., 1907	Inter. Med. Cong. Aus., 18	p. 576 Dept. Agri, Queensland, Re	1898-9, p. 97 Agri, Jour. Vic., iii., 1905,	580 Agri. Jour. Q'land, ii., 1898	Jour. Agri. and Ind. S.A.,	1900, p. 159 Vic. Nat. Vic., xxi., 1904-5. 147	Vic. Nat. Vic., xxi., 1904-5, 147	Trans. Ento. Soc. N.S.W.,	15/11, p. 214 Trans. Inter. Med. Cong. Aus., 1889, p. 51
Cherry	Brunmit	Cleland	(fibson	Pound	Bull	1	Williams	Kitson	Keartland	Krefft,	Bancroft
Victoria (from	1 rop. Atrica) Adelaide	West Aus.	Queensland	Queensland	Charlton, Vie.	N.S.W.	S.E. of S. Aus.	Victoria (?)	Victoria	N.S.W.	Queensland(?) Bancroft
Homo (subcutaneous tissue)	Homo (exerciory organs)	Bos taurus (nodules in stomach)	Bos taurus	Bos taurus	Equus caballus	Ovis aries (lungs)	Ovis aries (abomasum)	"Kangaroo" (subcutaneous tissue)	Ares " Boobook owl, between skin and skull "	<i>Reptilia</i> Egernia cunninghami	- "Fish" $Pisces$
	l gm	? (larvae) -	! ('' Worm nests ") -		1	1				,	
	Victoria (from Cherry	Victoria(from Cherry Trop. Africa) Adelaide Bronmit	 Homo (subcutaneous tissue) Victoria(from Trop. Africa) Homo (excretory organs) Adelaide Bos taurus (nodules in West Aus. stomach) 	 Homo (subcutaneous tissue) Vietoria(from Cherry) Homo (excretory organs) Adelaide Brummit Bos taurus (nodules in West Aus. Cleland stomach) Bos taurus (nodules in Queensland (fibson 	cutaneous tissue) Victoria(from Cherry etory organs) Adelaide Brummit s (nodules in West Aus. Cleland h) Queensland (fibson Queensland Pound	cutaneous tissue) Victoria(from Cherry etory organs) Adelaide Brummit s (nodules in West Aus. Cleland h) Queensland (fibson Queensland Pound lus Charlton, Vic. Bull	eutaneous tissue) Vietoria(from Cherry etory organs) Adelaide Brunmit s (nodules in West Aus. Cleland h) Queensland (fibson Queensland Pound Ius Charlton, Vie. Bull Ings) N.S.W.	eutaneous tissue) Vietoria (from ^{Cherry} Trop. Africa) Brunnit etory organs) Adelaide ^{Cherry} b) Adelaide ^{Cherry} b) West Aus. ^{Cleland} Queensland ^{Chend} Queensland ^{Chend} Queensland ^{Chend} MI (hus) ^{Cherry} ^{Sund} ^{Cherry} ^{Sund} ^{Cherry} ^{Sund} ^{Cherry} ^{Sund} ^{Cherry} ^{Sund} ^{Cherry} ^{Sund} ^{Cherry} ^{Sund}	eutaneous tissue)Vietoria (from Trop. Africa)Cherryetory organs)AdelaideBrunmitetory organs)AdelaideBrunmits(nodules in QueenslandWest Aus.Clelandh)QueenslandGibsonQueenslandInudlusQueenslandPoundInudlusCharlton, Vic.Bulllungs)N.S.Wabomasum)S.E. of S. Aus.Williams" (subcutaneousVictoria (?)Kitson	eutaneous tissue)Vietoria (from Trop. Africa)Cherry Brunmitetory organs)AdelaideBrunmitetory organs)AdelaideBrunmits(nodules in QueenslandWest Aus.Clelandh)QueenslandGibsonQueenslandflusQueenslandPoundlusCharlton, Vie.Bulllungs)N.S.Wabomasum)S.F. of S. Aus.Williams"(subcutaneousVictoria (?)KitsonAresVictoria (?)Kitsonall "Victoria (?)Kentland	eutaneous tissue) Vietoria (from Cherry etory organs) Adelaide Brunnait b) (todules in West Aus. Cleland h) (acensland Gibson Queensland Pound Queensland Pound (ibson Queensland Pound (ibson Queensland Rund (ibson (ibso

						(\tilde{a})	(2)	(8)	
Record.		Arch. Zool. Exper., iii., p. 181,	Agri. Ĝaz. N.S.W., ii., 1891, p. 213	Agri. Gaz. N.S.W., iii., 1892, p. 822	Ralum, Bis- von Linstow Arch. Naturg., lxiii., 1897, p. marck Ar. 290	Trans. Futo. Soc. N.S.W., ii. (5) 1871, p. 212	Trans. Buto. Soc. N.S.W., ii., (5) 1871, p. 214	Denk. Ges. Jena, viii., 1898; (8) Semon, v., p. 471	Agri. Gaz. N.S.W., iii., 1892, p. 822
Recorder.		Villot	Cobb	Perrie	von Linstow	Krefft	Krefft	von Linstow	Perrie
Locality.	IVNEMATOMORPH A	Tasmania	N.S.W.	V.—ACANTHOCEPHALA N.S.W.	Ralum, Bis- marck Ar.	Aus. Waters Krefft	N.S.W.	N.E. Aus.	
Host.	IV.—NEMA	1		V.—ACANT —	Arcs Halcyon sanctus (intestine)	Mammalia Delphinus forsteri	Reptilia Diemenia reticulata	Mammalia Perameles obesula (Geoff.) (alim. canal)	VI.—I Equus caballus
Species.		Gordius incertus, Villot -	Gordius, sp.	Echinorhynchus gigas	Echinorhynchus horridus, Lin- stow	Echinorhynchus, sp.	Echinorhynchus, sp.	Gigantorhynchus semoni	Gastrophilus equi (larval stage)

Record.	Jour. of Council of Agri. Tas.,	и., 1694, р. (b Australasian, 1894, i., p. 190	Jour. of Agri. and Ind. S.A. (14) iv., 1901, p. 523, 619, etc.	Agri. Jour. Vic., i., 1902, p.	693 Agri. Jour. Vie., ii., 1904, p.	634 Jour. Agri. and Ind. S.A., ix.,	1905-6. p. 252 Jour. Agri. and Ind. S.A., ix.,	1905-6, p. 252 Agri. Jour. Vic., ii., 1904, p.	'63:) Jour, Agri. W.A., i., 1899, p.	23 Agri. Gaz. N.S.W., xi., 1900,	p. 841 Agri. Gaz. N.S.W., xix., 1908,		p. 622 Agri. Jour. Vic., v., 1907, p. 448
Recorder.	Thompson	Brown	. !	French	Brown	Desmond	Desmond	Brown	Helms	Stewart	Froggatt	Williams and	Wedd Brown
Locality.	Latrobe, Wyn- Thompson vard ato	Tasmania Victoria	Lobethal, Mt. Gambier,	etc., S.A. Victoria	Victoria	South Aus.	South Aus.	Victoria $(?)$	West Aus.	N.S.W.	N.S.W.	mbier,	S.A. Victoria
Host.	Equus caballus	Equus caballus	Equus caballus	Equus caballus	Equus caballus	Equus caballus	Equus caballus (rectum)	Equus caballus (rectum)	Equus caballus	Equus caballus	Equus caballus	Equus caballus	Equus caballus
Species.	Gastrophilus equi (larval stage) Equus caballus	Gastrophilus equi (larval stage) Equus caballus (1)	Gastrophilus equi (larval stage) Equus caballus	Gastrophilns equi (larval stage) Equus caballus	Gastrophilus equi (larval stage)	Gastrophilus equi (larval stage) Equus caballus	Gastrophilus haemorrhoidalis (larval stage)	Gastrophilus haemorrhoidalis (larval stage)		Gastrophilus, sp. $(?)$	'	Gastrophilus, sp. $(?)$	Gastrophilus, sp. (1)

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speciesHost.Host.Locality.Recorder.Gastrophilus, sp. (1)-Equus caballusWest Aus. $-$ Gastrophilus, sp. (1)-Equus caballusWest Aus. $-$ Gastrophilus, sp. (1)-Equus caballusWest Aus. $-$ Oestrus, sp. (1)-Cris ariesWest Aus. $-$ Oestrus, sp. (1)-Cris ariesNorth Aus. $-$ Oestrus, spCris ariesNorth Aus. $-$ 1Crim dronedariusNorth Aus. $-$ 1North Aus. $ -$ 1North Aus. $ -$ 2Oris ariesNorth Aus.North Aus. $-$ 2Acarus depilis, Brown- $ -$ 3Faculifer rostratus- $ -$ 5Gallus domesticus (suberti- $ -$ 6Faculifer rostratus- $ -$ 6Faculifer rostratus- $-$	Record.	Jour. Agri. W.A., x., 1904, p.	^{4.0} Jour. Agri. W.A., xiv., 1906, p.	Papers and Proc. Roy. Soc.	Jour. Agri. Ind. S.A., iii., 1900, 5.4. 565	Agri. Gaz. N.S.W., xii., 1901. p. 1542		Brit. Med. Jour., 1897, ii., p. 1675	Proc. Roy. Soc. Vic., xxi., 1908, (2)	Trans. Inter. Med. Cong. Aus., 1005 - 380	Trans. Inter. Med. Cong. Aus., 1905, p. 380		Troc. Zool. Soc. Lond., 1802, p. 114 Trans. Ento. Soc. N.S.W., ii., 1871, p. 211
species. Host. $Host.$ sp. (1) - Equus caballus sp. (1) - Equus caballus (larval stage) - Cunelus dromedarius 1 - Ovis aries γ - ARA A_{Iees} VIARA A_{Iees} VIARA A_{Iees} ratus ratus ratus ratus A_{Iees} A_{Ie	Recorder.		Despeissis	Morton	Tepper	Stewart		Brown	Sweet	Johnson	Johnson	-	Danra Krefft
species. Host. sp. (l) - Equus caballus sp. (l) - Equus caballus (larval stage) - Ovis aries l - Camelus dromedarin - Camelus dromedarin - Camelus dromedarin - Camelus dromedarin - Camelus dromedarin - l^{res} - l^{res} - l^{res} - l^{res} - $dentised invia (sintering) - denticulatum - denticulatum$	Locality.	West Aus.	West Aus.	Tasmania	North Aus.	N.S.W.	ACHNIDA	Vic. and S.A.	Victoria	Australia $(?)$	Australia (?)		Zool. Gaudens, Lond. (from Anstrulia)
species sp. (sp. (larve larve , Bre ratus ratus dent	Host.	Equus caballus	Equus caballus	Ovis aries	Camelus dromedarius	Ovis aries		Gallus domesticus (subcut- aneous tissue)	Columbia livia (subcuta- neous tissue)			lia	
500	Species.	E	r	t	1			I		Linguatula rhinaria	Pentastomum denticulatum -		teretiusculum.

			• Common voire		
Pentastomum Baird	teretiusculum.	Hoplocephalus superbus (lung)	King Island Spencer and Vic.	Spencer	(Q.J.M.S. (n.s.), xxxiv., 1892-3, (15) p. 1
Pentastomum, sp.		Pseudechys porphyriacus Pseudechys porphyriacus	King Island Spencer	Spencer	Proc. Roy. Soc. Vic., i., 1888, (16)
Pentastomum, sp.	1	Hinulia taeniolata	N.S.W.	Krefft	Trans. Ento. Soc. N.S.W., ii., (5)
Pentastomum, sp.		Diemenia reticulata	N.S.W.	Krefft	Truns. Ento. Soc. N.S.W., ii., (5)
Pentastomum, sp.	,	Diplodaetylus ornatus	N.S.W.	K refft	Trans. Ent. p. 214 1871 n. Soc. N.S.W., ii., (5) 1871 n. 914

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